

In the Claims

Please cancel claims 1-8, 10-36, 38-41, 43-49, 51-72, 93, 95-97, 99-108 and 110-117 and add claims 118-146 so that the claims read as follows:

1-72. (Canceled)

73. (Withdrawn) A method of cleaning a mask, comprising:
 putting the mask in a container;
 placing the container in only a single cleaning solution;
and
 wherein the cleaning solution is contained within a first vessel;
 the first vessel is contained within a second vessel; and
 the second vessel further contains an aqueous solution surrounding the first vessel.

74. (Withdrawn) The method of claim 73, further comprising:
closing the container.

75. (Withdrawn) The method of claim 74, further comprising:
covering the first vessel with a lid.

76. (Withdrawn) The method of claim 75, further comprising:
washing the mask with de-ionized water.

77. (Withdrawn) The method of claim 76, further comprising:
drying the mask with nitrogen.

78. (Withdrawn) The method of claim 77, further comprising:
receiving the mask.

79. (Withdrawn) The method of claim 73, wherein: the cleaning solution is a hydrochloric acid solution.

80. (Withdrawn) The method of claim 79, wherein: the mask is a molybdenum mask.

81. (Withdrawn) The method of claim 75, further comprising: agitating the cleaning solution.

82-117. (Canceled)

118. (New) A method of cleaning a molybdenum mask having a series of metals deposited thereon, comprising:

placing the molybdenum mask into a container;

immersing the container within a first vessel including only a single aqueous cleaning solution including hydrochloric acid in a range of greater than 5% but less than 50% by weight; and

agitating the cleaning solution at a predetermined agitation level for a predetermined period of time;

wherein the first vessel is contained within a second vessel containing an aqueous solution surrounding the first vessel.

119. (New) The method of claim 118, further comprising: covering the first vessel with a lid.

120. (New) The method of claim 119, further comprising: drying the mask with nitrogen.

121. (New) The method of claim 120, further comprising:
washing the mask with de-ionized water.
122. (New) The method of claim 118, wherein:
the hydrochloric acid concentration is about 15-37% by weight.
123. (New) The method of claim 118, wherein:
the hydrochloric acid concentration is about 25 to less than 50% by weight.
124. (New) The method of claim 118, wherein:
the hydrochloric acid concentration is about 37% by weight.
125. (New) The method of claim 118, wherein:
the predetermined period of time is at least 5 minutes and no more than 300 minutes.
126. (New) The method of claim 125, wherein:
the predetermined period of time is at least 10 minutes and no more than 100 minutes.
127. (New) The method of claim 126, wherein:
the predetermined period of time is at least 15 minutes and no more than 40 minutes.
128. (New) The method of claim 127, wherein:
the predetermined period of time is at least 25 minutes and no more than 30 minutes.

129. (New) The method of claim 118, wherein:
the agitation level is quantified in terms of agitation frequency.
130. (New) The method of claim 129, wherein:
the agitation frequency is between 18 kHz and 2 MHz.
131. (New) The method of claim 130, wherein:
the agitation frequency is between 20 kHz and 1 MHz.
132. (New) The method of claim 131, wherein:
the agitation frequency is between 20 kHz and 100 kHz.
133. (New) The method of claim 132, wherein:
the agitation frequency is between 25 kHz and 50 kHz.
134. (New) The method of claim 118, wherein:
the agitation level is quantified in terms of agitation power.
135. (New) The method of claim 134, wherein:
the agitation power is between 1 W/gal and 100 W/gal.
136. (New) The method of claim 135, wherein:
the agitation power is between 2 W/gal and 50 W/gal.
137. (New) The method of claim 136, wherein:
the agitation power is between 5 W/gal and 40 W/gal.
138. (New) The method of claim 137, wherein:
the agitation power is between 10 W/gal and 30 W/gal.

139. (New) The method of claim 138, wherein:
the agitation power is between 20 W/gal and 30 W/gal.
140. (New) The method of claim 139, wherein:
the agitation power is about 25 W/gal.
141. (New) The method of claim 118, wherein:
the predetermined period of time is at least 5 hours and
no more than 48 hours.
142. (New) The method of claim 118, wherein:
the molybdenum mask has a set of through holes.
143. (New) The method of claim 118, wherein:
the series of metals includes chrome, copper, gold and a
lead/tin mixture.
144. (New) The method of claim 118, wherein:
the container is made of Teflon®.
145. (New) The method of claim 118, wherein:
the container is made of a material essentially inert
with respect to hydrochloric acid.
146. (New) The method of claim 118, wherein:
the container is made of high-density polyethylene.